

JOHN CARL RAMIREZ

Purok 1A, Upper Poblacion, Libertad, Misamis Oriental, Philippines

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EDUCATION

Bachelor of Science in Computer Science

2023 - Present

University of Science and Technology of Southern
Philippines - Cagayan de Oro Campus, CGPA: 1.5632

Elementary to Senior High School

2011 - 2023

Prophet's Pen Academy, Gitagum, Misamis Oriental
Graduated Valedictorian from Grade 7 to Grade 11
School President and Graduated Salutatorian in Grade 12

SKILLS AND INTERESTS

Technical Skills	Full-Stack Web Development (React, NextJS, NodeJS, Typescript, FastAPI, Django, Supabase), Data Analytics, SQL, UI/UX Design and Graphic Design, (Figma, Canva, Adobe Illustrator, Photoshop), Technical and Creative Writing, Video Editing and Videography (Premiere Pro, After Effects, DaVinci Resolve)
Programming Software	Python, Java, JavaScript, TypeScript, C++, HTML/CSS Adobe Suite, GitHub, Linux and Windows, Microsoft Office, Google Suite, Notion, n8n, Zapier, LottieFiles, Blender, Cinema4D
Languages	English (Fluent), Bisaya (Native), Tagalog
Interests	Web Development, Backend Systems, Machine Learning, Data Science, Research, Motion Graphics, 3D Modelling, Illustration, Music, Film, Literature, Content Creation

PROJECTS

Lead Developer for the University's Guidance and Counselling Services

Appointment and Management System

November 2025 - present

Major Project as a part of curriculum

- Led the development of a web-based appointment and management system in collaboration with the Guidance and Counselling Services (GCS) of USTP-CDO, built using the latest web development frameworks such as NextJS and Supabase
- Designed with RBAC (Role-Based Access Control), complex authentication system, notification system, user-friendly interface, and complete CRUD operations
- Currently still in development, with continuous feedback from USTP-CDO's GCS

Lead Researcher on Post-Disaster Road Restoration using Novel Approaches such as Steiner Tree Approximation Algorithms

August 2025 - Present

Major Project as a part of curriculum and Proposed Thesis

- Developed novel approaches in optimizing post-disaster road restoration algorithms using Steiner tree approximation algorithms
- Performed with higher accuracy (approximation ratio) compared to other approximation and exact algorithms, at relatively fast runtime
- One of the potential thesis proposals, with possible expansion on the use of neural networks or computer vision

Lead Video Editor for the University-Wide Intramurals

January 2026

University Student Government, USTP-CDO

- Lead in high-intensity video editing workload for the intramurals, using several creative tools such as Adobe Premiere Pro, After Effects, Photoshop, and Blender

- Edited nearly 1000+ videos in the span of a week, directed and helped on several intramural events such as Drag Queen promo video and short-form video content
- Helped in the cumulative 100k+ engagements in several social media platforms at the duration of the event, alongside several positive responses in organizations and online groups

RESEARCH PUBLICATION

(Pending Review) **John Carl Ramirez**, Gerlie Campion, Kathleen Grace Gultiano "*Performance Analysis and Application of KMB 2-Approximation Algorithm in Finding Optimal Routes for Post-Disaster Road Network Restoration*"

Available at SSRN: <http://dx.doi.org/10.2139/ssrn.5277559>

May 2025

INTERNSHIP/WORK

Enduro Group Business Consulting and Services,

Lead Designer and Branding Manager, Dallas, Texas

December 2025 - August 2026

STUDENT LEADERSHIP

Computer Science Student Society (CS3)

CS3 Core Team Lead

November 2025 - Present

- Led an elite group of computer science students that focuses on research and software solutions to computer science-related problems
- Currently building a unified website for USTP-CDO's Department of Computer Science and CS3, to showcase both the department and organization
- Currently restructuring and realigning the team to ensure maximum efficiency in the coming months

EXTRA-CURRICULAR

- Secured Level 2 in **11th TOPCIT** (Test of Practical Competency in IT) November 2024
- Participated in Department of Information and Communications Technology (DICT)'s **AI.Deas Region X** at Hammerson Hotel, Cagayan de Oro City September 2025
- Participated in **Google Developer Student Clubs – APAC Solution Challenge**, Finished at 1st Place in USTP-CDO, competed at Asia-regional level March 2024
- Member of several student organizations such as University Student Government (Video Editing and Multimedia Head), 4-H Club USTP-CDO, and Computer Science Student Society (CS3) 2024 - Present

DECLARATION

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.